

05/03/2005 10824345.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks  
(ROSPATENT) added to list of core patent offices covered  
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status  
data from INPADOC  
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available  
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded  
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN  
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced  
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
NEWS 12 MAR 22 PATDPASPC - New patent database available  
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new  
fields  
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced  
NEWS 16 APR 18 New CAS Information Use Policies available online  
NEWS 17 APR 25 Patent searching, including current-awareness alerts (SDIs),  
based on application date in CA/CAPLUS and USPATFULL/USPAT2  
may be affected by a change in filing date for U.S.  
applications.  
NEWS 18 APR 28 Improved searching of U.S. Patent Classifications for  
U.S. patent records in CA/CAPLUS  
  
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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05/03/2005 10824345.trn

result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:26:57 ON 03 MAY 2005

=> d l1

NO L# DEFINED

There are no L# queries, structures, or screen sets defined in the current session.

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:27:15 ON 03 MAY 2005

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STRUCTURE FILE UPDATES: 2 MAY 2005 HIGHEST RN 849658-68-0

DICTIONARY FILE UPDATES: 2 MAY 2005 HIGHEST RN 849658-68-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Crossover limits have been increased. See HELP CROSSOVER for details.

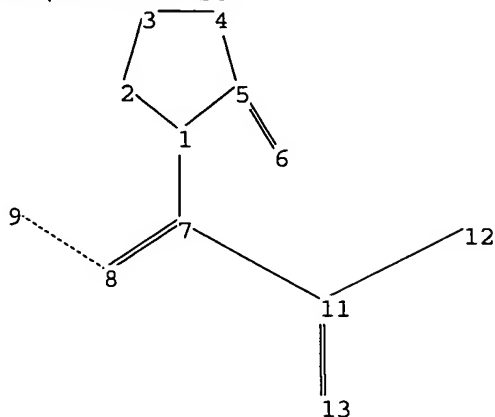
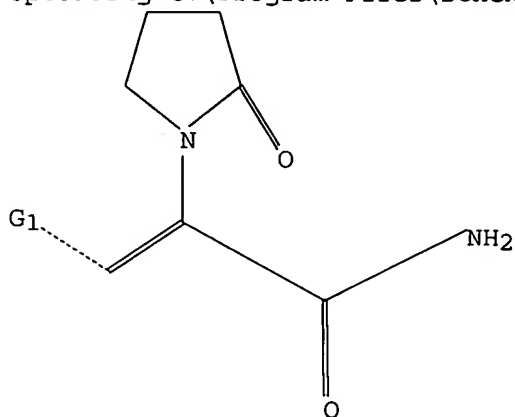
Experimental and calculated property data are now available. For more

05/03/2005 10824345.trn

information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10824345.str



chain nodes :  
6 7 8 9 11 12 13  
ring nodes :  
1 2 3 4 5  
chain bonds :  
1-7 5-6 7-8 7-11 8-9 11-12 11-13  
ring bonds :  
1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 1-7 5-6 8-9 11-12 11-13  
exact bonds :  
2-3 3-4 4-5 7-8 7-11  
isolated ring systems :  
containing 1 :

G1:H,CH3,OH,NH2,NO2,X,Cy

Match level :

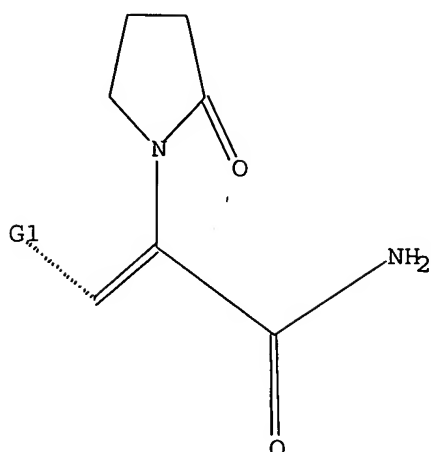
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 H, Me, CH, NH2, NO2, X, Cy

Structure attributes must be viewed using STN Express query preparation.

=> s l1  
 SAMPLE SEARCH INITIATED 11:27:30 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 660 TO ITERATE

100.0% PROCESSED 660 ITERATIONS 0 ANSWERS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 11659 TO 14741  
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full  
 FULL SEARCH INITIATED 11:27:36 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 13692 TO ITERATE

100.0% PROCESSED 13692 ITERATIONS  
 SEARCH TIME: 00.00.01

1 ANSWERS

L3 1 SEA SSS FUL L1

=> FIL CAPLUS  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
161.33	161.54

FILE 'CAPLUS' ENTERED AT 11:27:56 ON 03 MAY 2005  
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FILE COVERS 1907 - 3 May 2005 VOL 142 ISS 19  
FILE LAST UPDATED: 2 May 2005 (20050502/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 1 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2001:661386 CAPLUS

DOCUMENT NUMBER: 135:210935

TITLE: Process for preparation of 2-oxo-1-pyrrolidine derivatives

INVENTOR(S): Surtees, John; Marmon, Violeta; Differding, Edmond; Zimmermann, Vincent

PATENT ASSIGNEE(S): Ucb Farchim S.A. (Ag - Ltd), Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001064637	A1	20010907	WO 2001-EP101956	20010221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2401048	AA	20010907	CA 2001-2401048	20010221
AU 2001073896	A5	20010912	AU 2001-73896	20010221
AU 778510	B2	20041209		
EP 1263727	A1	20021211	EP 2001-940256	20010221
EP 1263727	B1	20041117		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001008657	A	20030429	BR 2001-8657	20010221
JP 2003528828	T2	20030930	JP 2001-563480	20010221
EP 1447399	A1	20040818	EP 2004-7733	20010221

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

EP 1452524 A1 20040901 EP 2004-7878 20010221

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

EP 1477478 A2 20041117 EP 2004-8270 20010221

EP 1477478 A3 20041124

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

AT 282592 E 20041215 AT 2001-940256 20010221

ZA 2002005671 A 20031110 ZA 2002-5671 20020716

ZA 2002005837 A 20031104 ZA 2002-5837 20020722

US 2003040631 A1 20030227 US 2002-204275 20020820

*Pant* US 6713635 B2 20040330

BG 107016 A 20030430 BG 2002-107016 20020820

NO 2002003995 A 20021021 NO 2002-3995 20020822

US 2004092576 A1 20040513 US 2003-609544 20030701

US 6858740 B2 20050222

US 2004192757 A1 20040930 US 2004-824345 20040415

PRIORITY APPLN. INFO.: GB 2000-4297 A 20000223

EP 2001-925354 A3 20010221

EP 2001-940256 A3 20010221

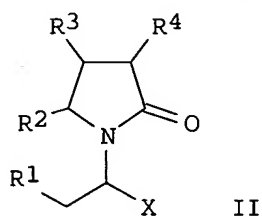
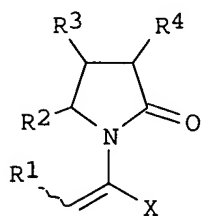
WO 2001-EP1956 W 20010221

US 2002-204275 A3 20020820

US 2003-609544 A3 20030701

OTHER SOURCE(S): CASREACT 135:210935; MARPAT 135:210935

GI



AB 2-Oxo-1-pyrrolidine derivs. (I; X = COOH, COOMe, COOEt, COONH<sub>2</sub>) were prepared and reacted to give chiral derivs. (II) by asym. hydrogenation in the presence of Rh(I) or Ru(II) catalysts. The invention also concerns a process for preparing  $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide derivs. from unsatd. 2-oxo-1-pyrrolidine derivs. Particularly the invention concerns novel intermediates and their use in methods for the preparation of (S)- $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide.

IT 358629-47-7P

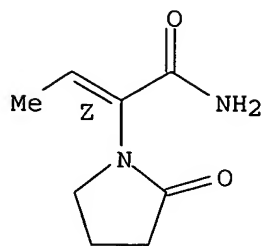
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and asym. hydrogenation with rhodium or ruthenium catalysts)

RN 358629-47-7 CAPLUS

CN 1-Pyrrolidineacetamide,  $\alpha$ -ethylidene-2-oxo-, ( $\alpha$ Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.09	169.63
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

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STRUCTURE FILE UPDATES: 2 MAY 2005 HIGHEST RN 849658-68-0  
 DICTIONARY FILE UPDATES: 2 MAY 2005 HIGHEST RN 849658-68-0

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\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

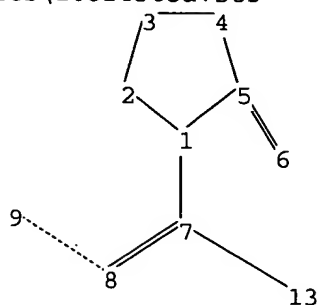
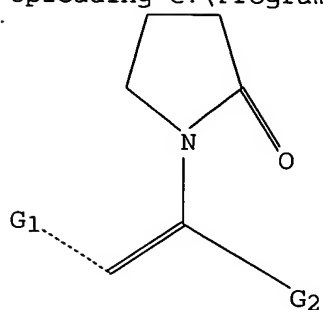
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

05/03/2005 10824345.trn

Uploading C:\Program Files\Stnexp\Queries\10824345a.str



chain nodes :  
6 7 8 9 13  
ring nodes :  
1 2 3 4 5  
chain bonds :  
1-7 5-6 7-8 7-13 8-9  
ring bonds :  
1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 1-7 5-6 7-13 8-9  
exact bonds :  
2-3 3-4 4-5 7-8  
isolated ring systems :  
containing 1 :

G1:H,CH3,OH,NH2,NO2,X,Cy

G2:COOH,CN,CHO,C(O)CH3

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
13:CLASS

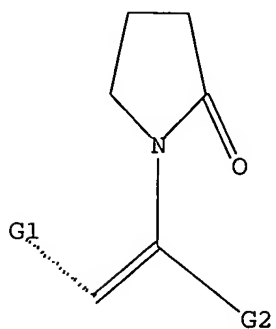
L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR





G1 H, Me, OH, NH<sub>2</sub>, NO<sub>2</sub>, X, Cy

G2 COOH, CN, CHO, C(O)CH<sub>3</sub>

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 11:32:37 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1393 TO ITERATE

71.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

2 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 25621 TO 30099  
PROJECTED ANSWERS: 2 TO 155

L6 2 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 11:32:44 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 28512 TO ITERATE

100.0% PROCESSED 28512 ITERATIONS  
SEARCH TIME: 00.00.01

12 ANSWERS

L7 12 SEA SSS FUL L5

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
161.33	330.96

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
0.00	-0.73

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FILE COVERS 1907 - 3 May 2005 VOL 142 ISS 19  
FILE LAST UPDATED: 2 May 2005 (20050502/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17

L8 6 L7

=> s 17/p

L9 6 L7/P

=> s 18 and process

2079038 PROCESS

1390204 PROCESSES

3094332 PROCESS

(PROCESS OR PROCESSES)

L10 1 L8 AND PROCESS

=> d 18 ibib abs hitstr tot

L8 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:144010 CAPLUS

DOCUMENT NUMBER: 140:321449

TITLE: Reaction of  $\beta$ -ethoxyvinyl lithiums generated from phenyltellanyl- and ethyltellanylacetaldehyde diethyl acetals with aldehydes and ketones and successive hydrations

AUTHOR(S): Yoshimatsu, Mitsuhiro; Hatanaka, Fumihiro

CORPORATE SOURCE: Department of Chemistry, Faculty of Education, Gifu University, Gifu, 501-1193, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2004) 52(2), 248-253

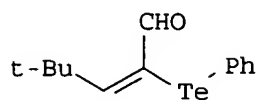
CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

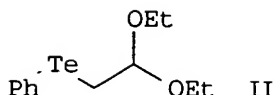
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I



II

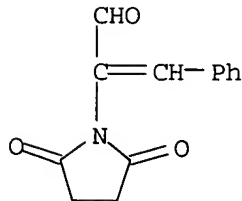


AB The authors reported the first general synthetic method for  $\alpha$ -tellanyl  $\alpha,\beta$ -unsatd. aldehydes, e.g. I, using  $\alpha$ -tellanyl-acetaldehyde di-Et acetals, e.g. II, with aldehydes and ketones, e.g. III, in good to high yield.  $\alpha$ -Tellanyl  $\alpha,\beta$ -unsatd. aldehydes can be easily transformed to more useful compds.

IT 678974-11-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (reaction of  $\beta$ -ethoxyvinyl lithiums generated from phenyltellanyl- and ethyltellanylacetaldehyde di-Et acetals with aldehydes and ketones)

RN 678974-11-3 CAPLUS

CN 1-Pyrrolidineacetaldehyde, 2,5-dioxo- $\alpha$ -(phenylmethylene)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:391315 CAPLUS

DOCUMENT NUMBER: 136:386130

TITLE: Preparation of pyrimidinylactam-substituted pyrazolopyridines as inhibitors of cGMP degradation

INVENTOR(S): Stasch, Johannes-Peter; Feurer, Achim; Weigand, Stefan; Stahl, Elke; Flubacher, Dietmar; Alonso-Alija, Cristina; Wunder, Frank; Lang, Dieter; Dembowski, Klaus; Straub, Alexander; Perzborn, Elisabeth

PATENT ASSIGNEE(S): Bayer AG, Germany

SOURCE: Ger. Offen., 38 pp.  
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

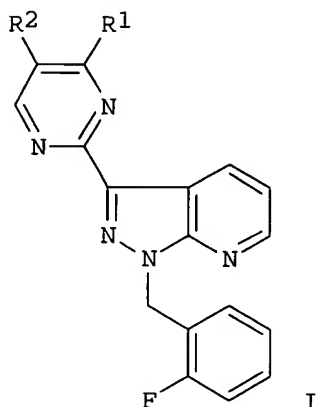
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

DE 10122895	A1	<del>20020523</del>	DE 2001-10122895	20010511
CA 2429308	AA	20020530	CA 2001-2429308	20011109
WO 2002042299	A1	20020530	WO 2001-EP12965	20011109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002021827	A5	20020603	AU 2002-21827	20011109
EP 1339716	A1	20030903	EP 2001-997487	20011109
EP 1339716	B1	20041103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004520285	T2	20040708	JP 2002-544433	20011109
PRIORITY APPLN. INFO.:			DE 2000-10057752	A1 20001122
			DE 2001-10122895	A 20010511
			WO 2001-EP12965	W 20011109

OTHER SOURCE(S): MARPAT 136:386130

GI



AB Title compds. [I; R1 = NH<sub>2</sub>, NHCO(C1-6 alkyl); R2 = R<sub>3</sub>NCOR<sub>4</sub>; R<sub>3</sub>NCOR<sub>4</sub> = (substituted) (annelated) 5-7 membered heterocyclyl containing an addnl. heteroatom] were prepared. Thus, an E/Z mixture of 3-(dimethylamino)-2-(3-oxo-4-morpholinyl)-2-propanenitrile (preparation given) was stirred with 1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine-3-carboxamide (preparation given) in xylene at 120° overnight to give 5.56% 4-(4-amino-2-[1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridin-3-yl]-5-pyrimidinyl)-3-morpholinone. Several I showed a vessel relaxation effect with IC<sub>50</sub> = 0.25-1.99 μM.

IT 92884-69-0P 426818-14-6P 426818-15-7P  
426818-16-8P 426818-30-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of pyrimidinylactam-substituted pyrazolopyridines as

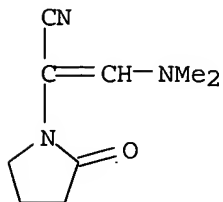
05/03/2005

10824345.trn

inhibitors of cGMP degradation)

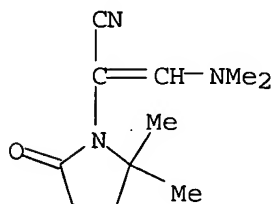
RN 92884-69-0 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[(dimethylamino)methylene]-2-oxo- (9CI)  
(CA INDEX NAME)



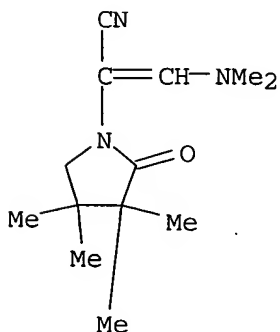
RN 426818-14-6 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[(dimethylamino)methylene]-2,2-dimethyl-5-oxo- (9CI) (CA INDEX NAME)



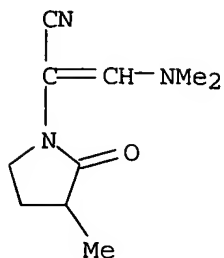
RN 426818-15-7 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[(dimethylamino)methylene]-3,3,4,4-tetramethyl-2-oxo- (9CI) (CA INDEX NAME)

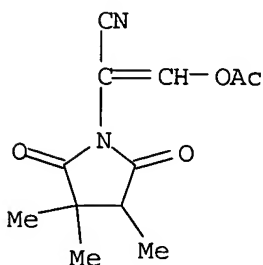


RN 426818-16-8 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[(dimethylamino)methylene]-3-methyl-2-oxo- (9CI) (CA INDEX NAME)



RN 426818-30-6 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[(acetyloxy)methylene]-3,3,4-trimethyl-2,5-dioxo- (9CI) (CA INDEX NAME)

L8 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:661386 CAPLUS

DOCUMENT NUMBER: 135:210935

TITLE: Process for preparation of 2-oxo-1-pyrrolidine derivatives

INVENTOR(S): Surtees, John; Marmon, Violeta; Differding, Edmond; Zimmermann, Vincent

PATENT ASSIGNEE(S): Ucb Farchim S.A. (Ag - Ltd), Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

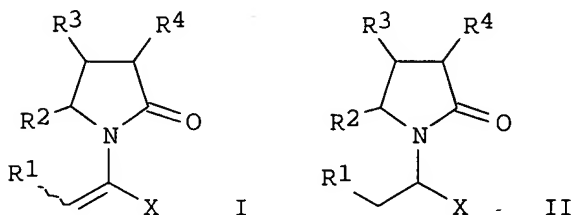
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001064637	A1	20010907	WO 2001-EP101956	20010221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2401048	AA	20010907	CA 2001-2401048	20010221
AU 2001073896	A5	20010912	AU 2001-73896	20010221
AU 778510	B2	20041209		

EP 1263727	A1	20021211	EP 2001-940256	20010221
EP 1263727	B1	20041117		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001008657	A	20030429	BR 2001-8657	20010221
JP 2003528828	T2	20030930	JP 2001-563480	20010221
EP 1447399	A1	20040818	EP 2004-7733	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EP 1452524	A1	20040901	EP 2004-7878	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EP 1477478	A2	20041117	EP 2004-8270	20010221
EP 1477478	A3	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 282592	E	20041215	AT 2001-940256	20010221
ZA 2002005671	A	20031110	ZA 2002-5671	20020716
ZA 2002005837	A	20031104	ZA 2002-5837	20020722
US 2003040631	A1	20030227	US 2002-204275	20020820
US 6713635	B2	20040330		
<del>BG 107016</del>	A	20030430	BG 2002-107016	20020820
NO 2002003995	A	20021021	NO 2002-3995	20020822
US 2004092576	A1	20040513	US 2003-609544	20030701
US 6858740	B2	20050222		
<del>US 2004192757</del>	A1	20040930	US 2004-824345	20040415
PRIORITY APPLN. INFO.:				
			GB 2000-4297	A 20000223
			EP 2001-925354	A3 20010221
			EP 2001-940256	A3 20010221
			WO 2001-EP1956	W 20010221
			US 2002-204275	A3 20020820
			US 2003-609544	A3 20030701
OTHER SOURCE(S): CASREACT 135:210935; MARPAT 135:210935				
GI				



AB 2-Oxo-1-pyrrolidine derivs. (I; X = COOH, COOMe, COOEt, COONH<sub>2</sub>) were prepared and reacted to give chiral derivs. (II) by asym. hydrogenation in the presence of Rh(I) or Ru(II) catalysts. The invention also concerns a process for preparing  $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide derivs. from unsatd. 2-oxo-1-pyrrolidine derivs. Particularly the invention concerns novel intermediates and their use in methods for the preparation of (S)- $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide.

IT 358629-39-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

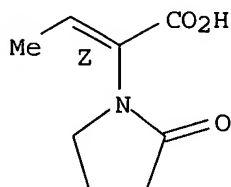
(preparation, esterification, amidation and asym. hydrogenation with rhodium or ruthenium catalysts)

05/03/2005 10824345.trn

RN 358629-39-7 CAPLUS

CN 1-Pyrrolidineacetic acid,  $\alpha$ -ethylidene-2-oxo-, ( $\alpha$ Z) - (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:491840 CAPLUS

DOCUMENT NUMBER: 115:91840

TITLE: Preparation of phenylnonadienoic acid derivatives as antihyperlipidemics

INVENTOR(S): Nakai, Hideo; Tanaka, Takashi; Nomura, Sumihiro; Takashima, Kohki; Suzuki, Kazuko

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

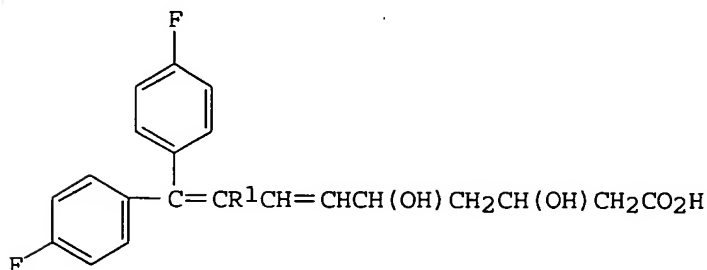
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 430129	A2	<del>19910605</del>	EP 1990-122525	19901126
EP 430129	A3	19920226		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2031174	AA	19910531	CA 1990-2031174	19901129
JP 04066552	A2	19920302	JP 1990-336011	19901129
PRIORITY APPLN. INFO.:			JP 1989-313053	A 19891130
			JP 1990-92551	A 19900406

OTHER SOURCE(S): MARPAT 115:91840  
GI



I

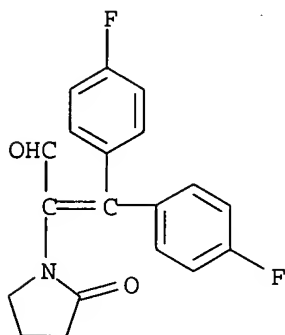


AB Title compds. I [R1 = (substituted) Ph, thienyl, furyl, oxopyrrolidinyl, pyridyl], ester, amide, lactone, salt thereof, are prepared To (E)-5,5-(4-FC6H4)2C:CPHCH:CHCN (preparation given) in THF was added (Me2CHCH2)2AlH to give the pentadienal which was treated with NaH and MeCOCH2CO2Me and BuLi to give the nonadienoate which in THF was treated with Et3B-tetrahydropyran to give the dihydroxynonadienoate which in MeOH was treated with aqueous NaOH to give (3R,5S)-(E)-I.Na (R1 = Ph) (II). The inhibitory activity against rat hepatic microsomal 3-hydroxy-3-methylglutaryl-CoA reductase of II at 10-4 and 10-6 M was 96 and 79%, resp.

IT 135564-12-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of antihyperlipidemics)

RN 135564-12-4 CAPLUS

CN 1-Pyrrolidineacetaldehyde,  $\alpha$ -[bis(4-fluorophenyl)methylene]-2-oxo-  
(9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:531438 CAPLUS

DOCUMENT NUMBER: 113:131438

TITLE: The origin of color and EPR spectral phenomena during the reaction between acetone and the tetrabutylammonium tetramethylsuccinimide/N-bromotetramethylsuccinimide complex

AUTHOR(S): Eberson, Lennart; Kubacek, Pavel

CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-221 00, Swed.

SOURCE: Acta Chemica Scandinavica (1990), 44(4), 384-93  
CODEN: ACHSE7; ISSN: 0904-213X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction between the tetrabutylammonium tetramethylsuccinimide/N-bromotetramethylsuccinimide complex (the T complex) and acetone produces a transient purple color and an EPR signal (a quintet). These phenomena accompany the main reaction, which consists of successive brominations/tetramethylsuccinimido substitutions of acetone. With two of the consecutively formed products, tetramethylsuccinimidoacetone and 1,3-bis(tetramethylsuccinimido)acetone, the same phenomena appear with successively increasing intensity and also earlier during the reaction course. It is suggested that the purple color originates in the monobromination of 1,3-bis(tetramethylsuccinimido)acetone, followed by proton abstraction and bromide loss to give the 1,3-bis(tetramethylsuccinimido)-2-oxidoalyl species. This oxyallyl derivative is

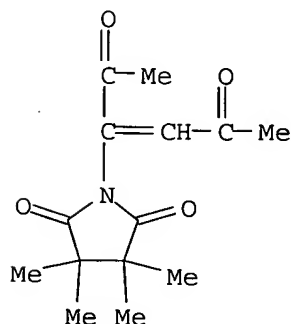
a true zwitterionic chromogen, analog of which are known to display similar color. The EPR signal was shown to originate from a related oxyallylic species, 1,3-dibromo-1,3-bis(tetramethylsuccinimido)-2-oxidoallyl radical cation, a representative of a novel class of intermediate, ylidions. The same signal could be produced by treating either 1,1,3,3-tetrabromoacetone or pentabromoacetone with the T complex. A related ylidion, the radical cation of 2,3-bis(N,N-diethylamino)cyclopropenone, was generated as a model. Suitable six-carbon 1,4-diketones, such as hexane-2,5-dione or cyclohexane-1,4-dione, upon treatment with the T complex gave solns. containing high concns. of the radical anion of tetrakis(tetramethylsuccinimido)-1,4-benzoquinone.

IT 129277-90-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 129277-90-3 CAPLUS

CN 2,5-Pyrrolidinedione, 1-(1-acetyl-3-oxo-1-butenyl)-3,3,4,4-tetramethyl-  
(9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:591608 CAPLUS

DOCUMENT NUMBER: 101:191608

TITLE: Synthesis and biological activity of N-substituted pyrrolid-2-ones

AUTHOR(S): Stezhko, T. V.; Granik, V. G.; Glushkov, R. G.;  
Roshchina, L. F.; Polezhaeva, A. I.; Mashkovskii, M. D.

CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR  
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1984), 18(7),  
823-7

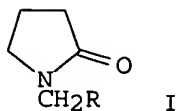
CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 101:191608

GI



AB 2-Pyrrolidinones I [R = CON:CR1NMe2 (R1 = H, Me), C(:NH)NH2, C(CN):CHNMe2

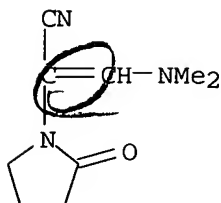
(II), CH<sub>2</sub>NHAc, CH<sub>2</sub>CH<sub>2</sub>NHBz, CH<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CN, etc.] were prepared in 47-92% yields starting from I (R = CONH<sub>2</sub> and R = CN) by a variety of reactions. Pyrrolidinone II was effective in treatment of acute hypoxia in mice enclosed in sealed 250 mL containers by increasing the life span 44.2 min at 500 mg/kg and 60.8 min at 1000 mg/kg compared to a control group.

IT 92884-69-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and hypoxia inhibition by)

RN 92884-69-0 CAPLUS

CN 1-Pyrrolidineacetonitrile,  $\alpha$ -[[(dimethylamino)methylene]-2-oxo- (9CI)  
(CA INDEX NAME)



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L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STM

ACCESSION NUMBER: 2001:661386 CAPLUS

DOCUMENT NUMBER: 135:210935

TITLE: ~~Process for preparation of~~  
2-oxo-1-pyrrolidine derivatives

INVENTOR(S): Surtees, John; Marmon Violeta; Differding, Edmond;  
Zimmermann, Vincent

PATENT ASSIGNEE(S): Ucb Research S.A. (Ag - Ltd), Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

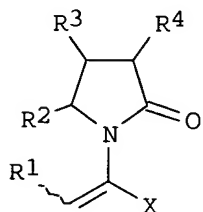
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001064637	A1	20010907	WO 2001-EP101956	20010221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2401048	AA	20010907	CA 2001-2401048	20010221
AU 2001073896	A5	20010912	AU 2001-73896	20010221
AU 778510	B2	20041209		
EP 1263727	A1	20021211	EP 2001-940256	20010221
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

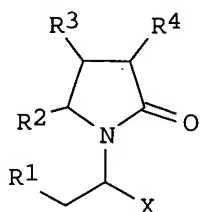
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

BR 2001008657	A	20030429	BR 2001-8657	20010221
JP 2003528828	T2	20030930	JP 2001-563480	20010221
EP 1447399	A1	20040818	EP 2004-7733	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EP 1477478	A2	20041117	EP 2004-8270	20010221
EP 1477478	A3	20041124		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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ZA 2002005671	A	20031110	ZA 2002-5671	20020716
ZA 2002005837	A	20031104	ZA 2002-5837	20020722
US 2003040631	A1	20030227	US 2002-204275	20020820
US 6713635	B2	20040330		
BG 107016	A	20030430	BG 2002-107016	20020820
NO 2002003995	A	20021021	NO 2002-3995	20020822
US 2004092576	A1	20040513	US 2003-609544	20030701
US 6858740	B2	20050222		
US 2004192757	A1	20040930	US 2004-824345	20040415
PRIORITY APPLN. INFO.:				
			GB 2000-4297	A 20000223
			EP 2001-925354	A3 20010221
			EP 2001-940256	A3 20010221
			WO 2001-EP1956	W 20010221
			US 2002-204275	A3 20020820
			US 2003-609544	A3 20030701

OTHER SOURCE(S): CASREACT 135:210935; MARPAT 135:210935  
GI



I



II

AB 2-Oxo-1-pyrrolidine derivs. (I; X = COOH, COOMe, COOEt, COONH<sub>2</sub>) were prepared and reacted to give chiral derivs. (II) by asym. hydrogenation in the presence of Rh(I) or Ru(II) catalysts. The invention also concerns a **process** for preparing  $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide derivs. from unsatd. 2-oxo-1-pyrrolidine derivs. Particularly the invention concerns novel intermediates and their use in methods for the preparation of (S)- $\alpha$ -ethyl-2-oxo-1-pyrrolidineacetamide.

IT 358629-39-7P

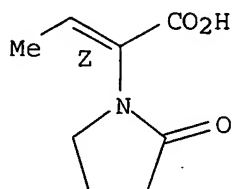
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, esterification, amidation and asym. hydrogenation with rhodium or ruthenium catalysts)

RN 358629-39-7 CAPLUS

CN 1-Pyrrolidineacetic acid,  $\alpha$ -ethylidene-2-oxo-, ( $\alpha$ Z)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
37.82	368.78

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-5.11	-5.84

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 11:34:43 ON 03 MAY 2005